



**Securing supply
chains and
protecting airports,
ports and cargo hubs**

For a world on the move

As today's trade routes become increasingly complex and sophisticated, only the most robust and resilient security solutions can prevent supply chain losses, protect infrastructure and ensure the safety of personnel.



Freedom of movement – for goods, services and people – is critical to the world economy and our way of life, which is why security and protection must be integrated into every stage of transport and logistics.

Freedom of movement also poses a significant security challenge. The very nature of transport makes it vulnerable and a favourite target for both criminals and political extremists. Today, airports, ports and cargo hubs must be more alert than ever. Public transport providers must balance safety with the need to provide open, effective service. For supply chain managers, the challenge is to prevent loss while maintaining flexibility and responsiveness.



Over the last 50 years, Tyco has been helping its customers adapt to the requirements of an ever-changing world. An industry leader in innovative life-safety and security solutions, Tyco combines specialist know-how with its global resources to provide customised security solutions for people and property all around the world. As the demands of legislation increase and new threats emerge, Tyco constantly pioneers new technologies and new solutions, keeping customers one step ahead, every step of the way.

Our systems and services include:

- // 24/7 Monitoring Control Rooms
- // Access Control Systems
- // ANPR (Automatic Number/License Plate Recognition)
- // Asset & Cargo Tracking
- // Fire Detection and Suppression
- // Global Access Control and Management
- // Intrusion Detection
- // IP Convergence Technology
- // Process & Incident Tracking
- // Temperature Monitoring
- // Traffic and Transportation Monitoring Systems
- // Video Management Solutions (analogue, hybrid and IP)



Protecting what matters most

Tyco combines global strength, local expertise and a spirit of innovation to provide customers around the world with state-of-the-art Fire & Security solutions tailored to their needs.

Tyco Integrated Fire & Security is the world's largest fire and security company with operations in more than 100 countries, including 69,000 employees and more than 1,200 office locations. Its 3 million commercial, government and residential customers include the majority of Fortune 500 companies, roughly 90% of the top 50 oil and gas companies, about 80% of the world's top 200 retailers, and over 100 major stadiums around the world.

Key to Tyco's global success is its local focus throughout Europe and around the world. While leveraging the strength of its worldwide presence and global product portfolio, Tyco remains grounded in its strong customer relationships, local market knowledge, and understanding of

local business practices and requirements. Ultimately, Tyco customers benefit from the combination of Tyco's global strength and local expertise.

Tyco is passionate about its business – providing tailored, top-quality integrated security and life-safety solutions. Tyco always provides a dedicated accounts team with an account manager, who acts as a single point of contact for all solutions and services. The team offers value for money by utilising an efficient state-of-the-art product portfolio. Each team understands the legal, business and cultural requirements for conducting business in their country, and knows how to respond to the specific security challenges and threats.

Tyco customer benefits

- // Local expertise** – Tyco's people know the needs of their customers and provide tailored, integrated security and life-safety solutions.
- // Global strength** – An international network allows customers to leverage a global product portfolio and access world-class solutions for their individual security and fire-protection needs.
- // Innovative solutions** – Tyco is committed to evolving its portfolio of integrated solutions and services; its extensive, state-of-the-art product portfolio is market-oriented and designed to fulfil customers' current and future requirements.



Supply chain protection

Efficient supply chains mean efficient, profitable businesses. But even the most efficient supply chain can be compromised by poor security. Integrated solutions tighten security while maintaining flow and efficiency.



The design and management of supply chains is now recognised as one of the major factors in manufacturing profitability. Techniques such as Kanban and Just-in-Sequence are leading to lower inventories, more efficient production and tighter integration between manufacturer and supplier. But as supply chain solutions become more sophisticated and electronics become integrated into almost all manufactured goods, the individual components in those supply chains are increasingly becoming smaller items of high value. As a result, the logistics and supply chain industry faces new security challenges.

Where pilfering and shrinkage might have been a problem in the past, today's criminals have identified these high-value, easily-sold items as vulnerable and virtually untraceable, often launching organised attacks. The challenge, of course, is to ensure the highest possible supply-chain integrity while maintaining flexibility and efficiency. Tyco makes sure that these two goals are not mutually exclusive.



By installing an advanced, integrated video surveillance and access control system, port management can remotely monitor all port activities inside its perimeter. This dramatically improves port security and helps ports avoid the costs of additional security personnel.



Protecting people, facilities and the bottom line

For a major European port that handles over 3,000 ships and 10 million tons of cargo annually, Tyco developed a tailored security solution that can be managed efficiently and effectively with limited disruption to the port's operations. The integrated security management solution includes a state-of-the-art video surveillance system and an automatic number plate recognition solution (ANPR) linked to the video system to automatically

record vehicles embarking and disembarking from the "roll-on-roll-off" ferries. Entry to the deep-water terminal for commercial ferries also has a full traffic management system with control barriers and ANPR digital cameras. The system provides automatic entry to certain vehicles whose registration plates have been granted the requisite access level.

Security 2.0 – A global approach to asset protection

A driver of 21st century security innovation, Tyco gets the most out of RFID technologies, IP protocols, advanced access control and fire detection solutions to give its customers a security edge. Tyco also follows international standards to ensure consistent security levels worldwide.

Tyco's worldwide capabilities make it uniquely qualified to meet the challenges of supply chain security. Its specialised services and solutions are specifically designed to meet the increasing demands of logistics companies worldwide. Tyco is also an active member of the Transported Asset Protection Association (TAPA), an organisation that brings together global manufacturers, logistics companies, and law enforcement with the common goal of reducing losses from international supply chains. TAPA has established international standards that allow logistics companies to work to consistent levels worldwide, and Tyco fully supports these standards.

IP convergence

Tyco is helping drive today's trend towards integrated systems based on IP protocols and technologies. As legacy systems are upgraded and replaced, there is the opportunity to bring both logistics and security systems together based on a single, universal technology. Control rooms can then handle all operational needs and the rooms themselves can be securely monitored and controlled from any location with Internet access.

Access control

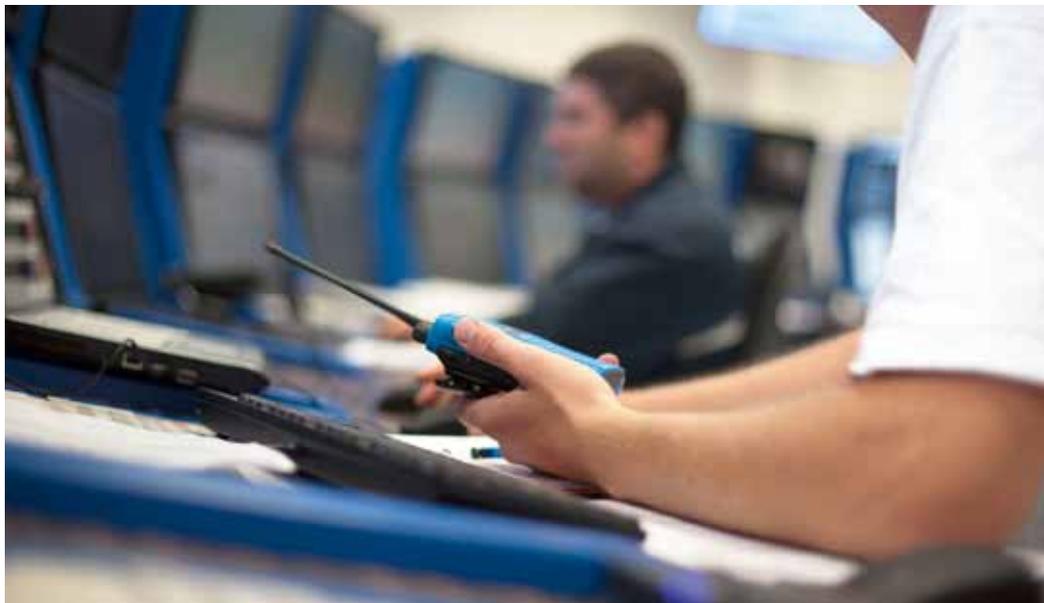
Logistics is now almost universally a 24-hour operation – the inevitable result of consumer demand and the speed of manufacturing. But this introduces new security risks resulting from unauthorised or unmonitored access to supply chain sites. Tyco has extensive expertise in access control solutions – from basic key code and lock systems at stand-alone sites, to sophisticated biometric monitoring across multiple locations. Indeed, Tyco today provides central access control systems that cover the entire EMEA region.

Fire detection

Tyco is at the forefront of protecting both property and people. Along with general security issues, fire remains a serious

threat to every facility and asset. While the fundamental physics of fire won't change, the methods and technology used to fight and detect it continue to evolve.

Developing new fire detection alarm systems is at the core of Tyco's business. Tyco harnesses cutting edge technology to detect fires faster and minimise the damage they cause. Protecting transportation systems from fire requires constant vigilance and Tyco's portfolio of products and services delivers comprehensive fire safety solutions – from compact installations for smaller applications, to sophisticated analogue addressable controllers, including large networked products. Tyco also takes responsibility for every stage of an alarm system – from site surveys, system design, development, installation, through to commissioning and subsequent monitoring, maintenance and service.



Securing cargo and trade lanes

Working closely with industry partners, Tyco applies its core know-how to help make points of entry, other key transportation facilities and goods in transit more resistant to attacks.



In 2012, the air transport industry alone handled over 51 million tonnes of international freight – a near 50% increase over ten years. The figures for road, rail and ocean freight are similar. As nations such as China become progressively more industrialised, and manufacturing continues to shift from developed western economies, suppliers will transport more around the globe than ever before.

Certainly, environmental concerns will demand that goods travel shorter distances to their final destination, but this will ultimately just increase the value of those goods in transit. We will move from high-volume, low-value raw materials to low-volume, high-value finished goods. Cargo will increase in value and importance, and any disruption to trade routes will have far-reaching effects.

At the same time, the very nature of transport infrastructures requires them to be open and operational around the clock, often in remote locations. The challenge is to protect transportation facilities as well as the transport itself. Tyco's solutions focus on both.

Remote monitoring

Any facility can be monitored remotely: distribution depots, entry gates, loading bays or trucks, to name a few. Algorithms can be created to trigger alarms and notifications in monitoring centres whenever unusual or suspicious events occur, and all can be networked using the latest IP technology and techniques. Tyco's solutions include:

- // **Video Video guarding** – Creates a consistent, dependable security process and supports industry specific regulatory compliance.
- // **Video Alarm verification** – Helps reduce false alarm dispatches and increase overall safety. Also includes critical condition monitoring (flood, temperature).
- // **Video Security for unattended deliveries** – Trained staff in centralised control rooms monitors store activities, including deliveries after business hours.

Intrusion detection

Theft and intrusion still go hand in hand, and Tyco's intrusion detection systems are among the most sophisticated. Based on either video or sensors, these systems can be remotely monitored and increasingly make use of IP technology to make them even more robust and secure. Interactive Video Monitoring is just one example of how Tyco prevents intrusion. These services turn the customer's on-site alarm and camera investment into a proactive tool that solves business problems every day.

Vehicle tracking

Tyco's vehicle tracking secures cargo, trailers and drivers on domestic and continental freight hauls and makes an important contribution to trade lane security. Tyco's complete package includes camera views during loading and unloading, GPS tracking for full on-board control and full reporting on movement.

Temperature monitoring

Many goods, especially in the pharmaceutical area, need to be maintained at a precise temperature to retain their efficacy. We help our customers to monitor the cold chain unrestrictedly and along the complete supply chain to protect these valuable goods.



3 million customers rely on Tyco

Our customers entrust us with their security and fire protection needs because they know that we are experienced, and that we completely understand their markets and individual security requirements.



// Improved surveillance for an international logistics provider

To minimise losses and shrinkage within its warehouses, a worldwide transport and logistics services group turned to Tyco's video surveillance solutions. Tyco implemented remotely controllable mobile dome cameras to ensure efficient surveillance of all storage aisles and to minimise any potential blind-spots. A Digital Video Recorder (DVR) was also installed to capture and record all images, providing greater post-event analysis through accurate searching of archived footage. These Tyco solutions have increased overall security levels and helped to improve the reach and responsiveness of security staff.



// 2 million containers in one window

With millions of tonnes of cargo moving through ports all over the world, huge container facilities require large-scale solutions for security and fire protection. A new port in the United Arab Emirates, with an initial capacity of 2 million containers, was in need of a "window on the port" solution. This meant that 23 systems and roughly 25,000 sensors had to be installed and integrated into a single interface. At the same time, the system architecture needed to be open enough to integrate the port's other systems. Tyco's solution involved a standardised interface with seven links, which today ensures the safety and security of the entire area.

// Security for airport staff and passengers

Operational security and efficiency is critical to any airport. Tyco's solutions feature airport-specific applications such as Passenger Segregation, Airbridge Monitoring, Check-in Desk Enabling and Airport Link. A major airport in Europe asked Tyco to provide an integrated solution for its new terminal that would be compatible with the other terminals. This required a fully integrated IP security solution, which not only provides 24/7 critical security, but also aids in the efficient flow of some 30 million passengers each year.

// European city metro system goes digital

Looking for a highly reliable safety and security system for emergency evacuations, a major European mass transit operator turned to Tyco's video surveillance expertise for ten of its metro stations. Tyco created a fully digital system with video surveillance combined with a public address and general alarm system – all integrated into a digital IP-based network.

Global Strength. Local Expertise. At Your Service.

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